1.0 GENERAL

1.1 Related UBC Guidelines

.1 Section 28 05 00 Access Services: General Standards

1.2 Related UBC Policy

.1 Policy 118 (Safety and Security Cameras)

1.3 Coordination Requirements

.1 UBC Electronic Systems and Access Services.

1.4 Description

.1 All Safety and Security Camera installations must comply with UBC Policy 118. 
https://universitycounsel.ubc.ca/access-and-privacy/cameras/

.2 This section covers requirements for Safety and Security Cameras. Cameras are installed by Access Services. General Requirements for this system for Consultants and Contractors are provided in Section 28 05 00 Access Services: General Standards.

.3 These guidelines provide reference to particular types, grades and models of products. In general, the references include both generic descriptions and specific product details. These references shall not be construed as a directive to sole-source products from any particular vendor except where this is specifically stated.

.4 Safety and Security Camera system that monitors both live and recorded events may include the following:

   .1 IP camera.
   .2 Video Encoder
   .3 Mid-span Injector
   .4 Video Management System (VMS) software.
   .5 VMS server and storage.
   .6 Desk top computer.

2.0 MATERIALS

2.1 IP Camera

.1 Device Location

   .1 Wall or ceiling mountable. Whenever possible, camera should be faced away from available light source. Exact location and viewing angle shall be confirmed by Access Services.

.2 Wiring

   .1 Demark for IP Cameras. Reference to Communications Standard Drawings ITSTD-23, ITSTD-24, and ITSTD-25

.3 Device Feature

   .1 12 VDC and/or PoE-enabled operation.
   .2 Minimum resolution 720P.
   .3 Minimum illumination 0.38 LUX/F1.6 (color), 0.08 LUX/F1.6 (black & white).
.4 RJ45 Ethernet PoE connector.
.5 Video compression minimum H.264, MJPEG.
.6 Exterior application day/night with auto IR filter.
.7 Operating temperature interior 0° C to +50° C, exterior -30° C to +50° C.

2.2 Video Encoder

.1 Device Location
.1 Should be installed in a mechanically secured room or preferably alarmed. Shelf, bracket, or rack mountable.

.2 Wiring
.1 Dedicated power adaptor from 120Vac outlet. RJ45 Ethernet connector. Analog composite video BNC inputs. I/O terminal blocks.

.3 Device Features
.1 8 – 20Vdc operation. Single or multichannel inputs. Supports multiple compression streams, minimum H.264 and MJPEG. ONVIF compliant. Operating temperature 0° C to +45° C.

2.3 Mid-span Injector

.1 Device Location
.1 Should be installed in a mechanically secured room or preferably alarmed. Shelf, bracket, or rack mountable.

.2 Wiring
.1 Dedicated power 120Vac. RJ45 Ethernet connectors.

.3 Device Features
.1 120Vac, 60hz operation. Provides PoE/PoE+, 30W full power per port, 100m data extension. IEEE 802.3at compliant. Operating temperature -20° C to +40° C.

***END OF SECTION***